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NOTICE OF ALLOWANCE AND FEE(S) DUE

20985 7590 07/28/2008

FISH & RICHARDSON, PC P.O. BOX 1022

MINNEAPOLIS, MN 55440-1022

EXAMINER
PHU, PHUONG M

ART UNIT PAPER NUMBER

2611 DATE MAILED: 07/28/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNIEY DOCKIET NO.
 CONFRMATION NO.

 10053,490
 10/26/2001
 Kobby Pick
 10559-45400/P10771
 3410

TITLE OF INVENTION: METRIC CORRECTION FOR MULTI USER DETECTION, FOR LONG CODES DS-CDMA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE DEE and DURI ICATION DEE (if required). Blocks 1 through 5 should be completed where

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FTOSB47; Rev 03-92 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been fit recordation as set from in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CTTY and STATE OR COUNTRY)				registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is					
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☐ Issue Fee ☐ A check is enclosed. ☐ Publication Fee (No small entity discount permitted) ☐ Payment by credit card. Form PTO-2038 is attached.					-4 E PEPO 2021		and a di		
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5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).				☐ b. Apolicant is no lor	oer claiming SMA	LL.EN	FITY status Sec 37 Cl	R 1.27(e)(2)	
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other p interest as shown by the records of the United States Patent and Trademark Office.									party in
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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/053,490	1	0/26/2001	Kobby Pick	10559-454001/P10771	3410	
20985	7590	07/28/2008		EXAM	UNER	
FISH & RICHARDSON, PC			PHU, PH	UONG M		
P.O. BOX 1022				ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55440-1022				2611		
				DATE MAILED: 07/28/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 912 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 912 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/053,490	PICK ET AL.	
Examiner	Art Unit	
Dhuong Dhu	2611	

- The MAILING DATE of this communication appears or All claims being allowable, PROSECUTION ON THE MERITS IS (OR RR therewith (or previously mailed), a Notice of Allowance (PTOL-85) or othe NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. Of the Office or upon petition by the applicant. See 37 CPR 1-133 and M	EMAINS) CLOSED in this application. If not included a appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiat
1. This communication is responsive to the Amendment filed on 7/1/	<u>08</u> .
 The allowed claim(s) is/are <u>1-20 and 22-28</u>. 	
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been r 2. ☐ Certified copies of the priority documents have been r 3. ☐ Copies of the certified copies of the priority document International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	received.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this of noted below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	
 A SUBSTITUTE OATH OR DECLARATION must be submitted. N INFORMAL PATENT APPLICATION (PTO-152) which gives reas 	
CORRECTED DRAWINGS (as "replacement sheets") must be su (a) including changes required by the Notice of Draftsperson's Part 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amen Paper No./Mail Date (dentifying indicia such as the application number (see 37 CFR 1.84(c)) seach sheet. Replacement sheet(s) should be labeled as such in the head of DEPOSIT OF and/or INFORMATION about the deposit of E attached Examiner's comment regarding REQUIREMENT FOR TI	attent Drawing Review (PTO-948) attached dment / Comment or in the Office action of should be written on the drawings in the front (not the back) of er according to 37 CFR 1.121(d). IJOLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/S8/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	Notice of Informal Patent Application Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment ⊠ Examiner's Statement of Reasons for Allowance

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DETAILED ACTION

 This Office Action is responsive to the Amendment filed on 7/01/08. Accordingly, claims 1-20 and 22-28 are currently pending.

REASONS FOR ALLOWANCE

Claims 1-20 and 22-28 are allowed.

3. The following is an examiner's statement of reasons for allowance:

-Regarding independent claim 1, none of prior art of record teaches or suggests a method of normalizing an output of a receiver, as claimed. Gonzalez et al (2002/0181624), in view of Sriram et al (6,754,251) and Miller et al (5,930,231), (all previously cited) teaches the claimed method except, at least, neither one or any combination or them teaches that the method comprises a procedure of determining a normalization factor using a determined variance of multiple access interference, wherein as remarked in section "Summary of Claimed Subject Matter", pages 2 and 3, of the Appeal Brief filed on 4/18/07, and in light of the Specification, pages, lines 1-3, 9-11, page 6, line 20 to page 8, line 8), the variance of multiple access interference is defined or specified in such a way that in direct sequence spread spectrum transmission, a stream of information is divided into small pieces, each of which is allocated across the spectrum to a different signature sequence over the same frequency channel, these allocations, with multiple users, resulting in the multiple access interference which is assumed to be a white Gaussian process and whose variance is calculated at least based on cross correlation between spreading sequences, multiple-user-detection weight vectors and channel taps estimation. In the method of Gonzalez et al in view of Sriram et al and Miller et al, the normalization factor is determined by using a determined variance of noise and/or interference;

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however, the variance is not defined or specified as mentioned above for the variance of multiple access interference of the claimed invention. It would not have been obvious for one skilled in the art to implement Gonzalez et al in view of Sriram et al and Miller et al, in further view of other prior art of record, for leading such the implementation to the claimed invention.

-Regarding independent claim 9, none of prior art of record teaches or suggests a receiver, as claimed. Gonzalez et al in view of Sriram et al and Miller et al teaches the claimed receiver except, at least, neither one or any combination or them teaches that the receiver performs a normalization based on a determined variance of multiple access interference, wherein as remarked in section "Summary of Claimed Subject Matter", pages 2 and 3, of the Appeal Brief filed on 4/18/07, and in light of the Specification, pages, lines 1-3, 9-11, page 6, line 20 to page 8, line 8), the variance of multiple access interference is defined or specified in such a way that in direct sequence spread spectrum transmission, a stream of information is divided into small pieces, each of which is allocated across the spectrum to a different signature sequence over the same frequency channel, these allocations, with multiple users, resulting in the multiple access interference which is assumed to be a white Gaussian process and whose variance is calculated at least based on cross correlation between spreading sequences, multipleuser-detection weight vectors and channel taps estimation. In the receiver of Gonzalez et al in view of Sriram et al and Miller et al, the normalization is performed based on a determined variance of noise and/or interference; however, the variance is not defined or specified as mentioned above for the variance of multiple access interference of the claimed invention. It would not have been obvious for one skilled in the art to implement Gonzalez et al in view of

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Sriram et al and Miller et al, in further view of other prior art of record, for leading such the implementation to the claimed invention.

-Regarding independent claim 19, none of prior art of record a method comprising procedures of method comprising: receiving one or more output signals from a detector; determining a normalization factor for each of the one or more output symbols, each normalization factor being independent of normalization factors for previous output symbols; and multiplying each of the one or more output symbols by the corresponding normalization factor to obtain a metric correction, wherein the normalization factor of a desired symbol is determined based on the detector output of the desired symbol, the time varying gain associated with the desired symbol and the total noise variance.

-Regarding independent claim 24, none of prior art of record teaches or suggests a method, as claimed. Gonzalez et al in view of Sriram et al and Miller et al teaches the claimed method except, at least, neither one or any combination or them teaches that the method comprises a procedure of determining a normalization factor using a determined variance of multiple access interference, wherein as remarked in section "Summary of Claimed Subject Matter", pages 2 and 4, of the Appeal Brief filed on 4/18/07, and in light of the Specification, pages, lines 1-3, 9-11, page 6, line 20 to page 8, line 8), the variance of multiple access interference is defined or specified in such a way that in direct sequence spread spectrum transmission, a stream of information is divided into small pieces, each of which is allocated across the spectrum to a different signature sequence over the same frequency channel, these allocations, with multiple users, resulting in the multiple access interference which is assumed to be a white Gaussian process and whose variance is calculated at least based on cross correlation

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between spreading sequences, multiple-user-detection weight vectors and channel taps estimation. In the method of Gonzalez et al in view of Sriram et al and Miller et al, the normalization factor is determined by using a determined variance of noise and/or interference; however, the variance is not defined or specified as mentioned above for the variance of multiple access interference of the claimed invention. It would not have been obvious for one skilled in the art to implement Gonzalez et al in view of Sriram et al and Miller et al, in further view of other prior art of record, for leading such the implementation to the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

/Phuong Phu/ Primary Examiner, Art Unit 2611